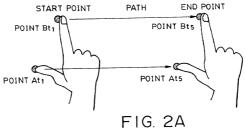


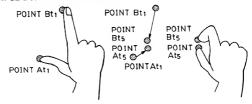
FIG. I

EXAMPLE 1 (PARALLEL DIRECTION)



1 10. 2

EXAMPLE 2 (INWARD DIRECTION)



F1G. 2B

EXAMPLE 3 (OUTWARD DIRECTION)

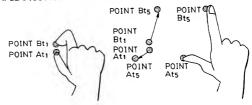


FIG. 2C

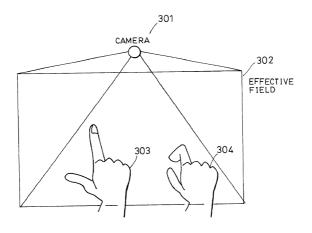


FIG. 3

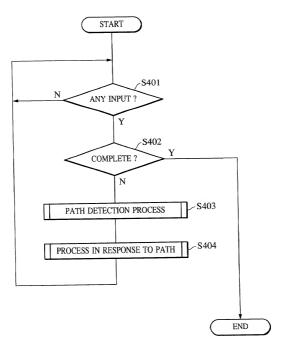


FIG. 4

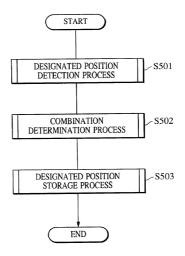


FIG. 5

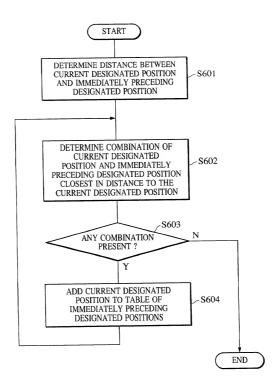


FIG. 6

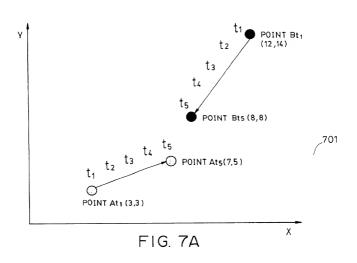


TABLE STORING POSITION DATA

POSIT	ION	COORDINATE	
DATA	AT [OCTAIT A	

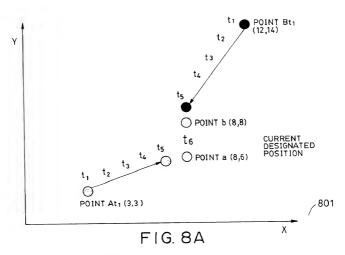
	Х	Y	702
tı	3	3	702
t ₂	4	3.5	
t3	5	4	
t4	6	4.5	
ts.	7	5	

FIG. 7B

POSITION COORDINATE DATA AT POINT B

	Х	Υ	703
t ₁	12	14	703
t ₂	11	12.5	
t3	10	11	
t4	9	10	
t5	8	9	

FIG. 7C



CURRENT DESIGNATED POSITION DATA (AT t6)

1		X	Υ	802
	a	8	6	
	Ь	8	8	

F1G.8B

CURRENT DESIGNATED POSITION DATA

			901
	X	Y	
a	8		6
b	8		8

FIG. 9A



DISTANCE TO IMMEDIATELY PRECEDING DESIGNATED POSITION

	Х	Y	DISTANCE TO DESIGNATED POSITION A	DISTANCE TO DESIGNATED POSITION B
a	8	6	1.414	4.123
b	8	8	3.601	1.000

FIG. 9B





DESIGNATED POSITION DATA AT EACH TIME POINT 903

X	Y
3	3
4	3.5
5	4
6	4.5
7	5
8	6
	3 4 5 6

X 12 14 t_1 12.5 t₂ 11 10 11 t₃ 9 10 t4 9 8 ts 8

FIG. 9C

FIG. 9D

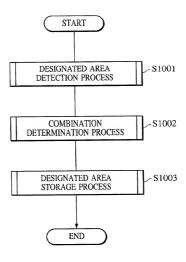


FIG. 10

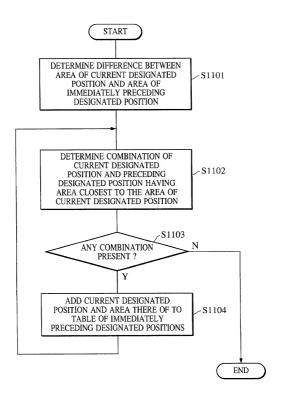
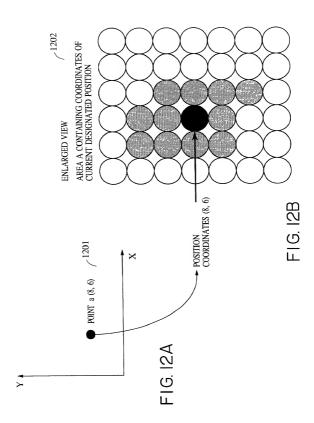
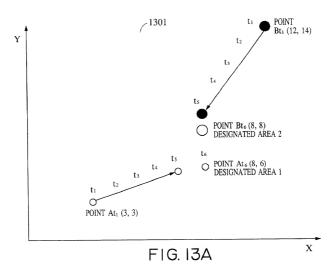


FIG. 11





TABLES STORING DESIGNATED AREA DATA

_1302

ADEA	DATA	AT DOINT	٨

		/	
	X	Y	AREA
t ₁	3	3	12.5
t ₂	4	3.5	12.2
t ₃	5	4	12.5
t ₄	6	4.5	12.0
t ₅	7	5	11.0

FIG. 13B

AREA	DATA	AT	POINT	R

			/
	X	Y	AREA
t ₁	12	14	19.5
t ₂	11	12.5	19.5
t ₃	10	11	20.0
t4	9	10	20.0
t ₅	8	9	20.0

_1303

FIG. 13C

CURRENT DESIGNATED AREA DATA (AT t₆)

_1304

	X	Y	AREA
a	8	6	11.5
b	8	8	20.0

FIG. 13D

CURRENT AREA DATA (AT t6)

			/
	X	Y	AREA
a	8	6	11.5
b	8	8	20.0

_1401

FIG. 14A

_1402

_1404

DIFFERENCE BETWEEN CURRENT AND IMMEDIATELY PRECEDING DESIGNATED AREAS

-		X	Y	AREA	DIFFERENCE FROM DESIGNATED AREA A	DIFFERENCE FROM DESIGNATED AREA B
	a	8	6	11.5	0.5	9.0
	b	8	8	20.0	9.0	0.5

FIG. 14B





TABLES STORING DESIGNATED AREA DATA

_1403

	X	Y	AREA
t ₁	3	3	12.5
t ₂	4	3.5	12.2
t ₃	5	4	12.5
t ₄	6	4.5	12.0
t ₅	7	5	11.0
t ₆	8	6	11.5

FIG. 14C

	X	Y	AREA
t ₁	12	14	19.5
t ₂	11	12.5	19.5
t ₃	10	11	20.0
t ₄	9	10	20.0
t ₅	8	9	20.0
t ₆	8	8	20.5

FIG. 14D

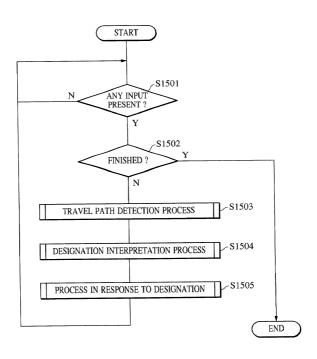


FIG. 15

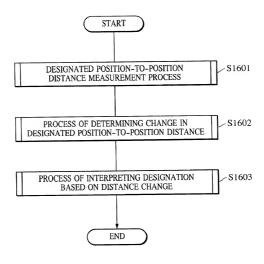


FIG. 16

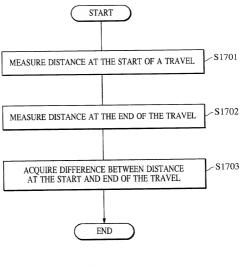


FIG. 17

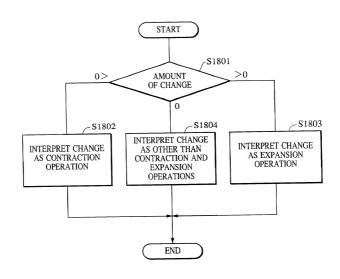
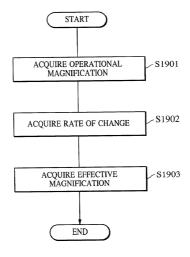


FIG. 18



EFFECTIVE MAGNIFICATION = 100-(100-OPERATIONAL MAGNIFICATION) \times RAGE of Change α

FIG. 19

CONTRACTION OPERATION

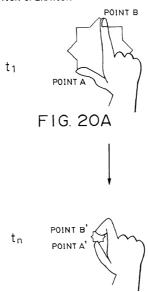
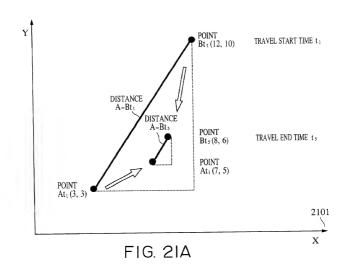


FIG. 20B



DISTANCE BETWEEN DESIGNATED POSITIONS A AND B, AND AMOUNT OF CHANGE

	DISTANCE BETWEEN A AND B	MAGNIFICATION (DISTANCE t ₁ /DISTANCE t ₁)	
t ₁	15.000	100%	
t ₂	11.011	73%	~2102
t ₃	7.810	52%	_
t ₄	3.905	26%	
t ₅	1.118	7%]

FIG. 21B

EXPANSION OPERATION

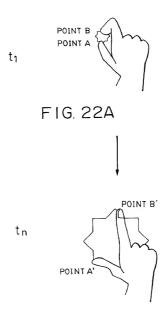
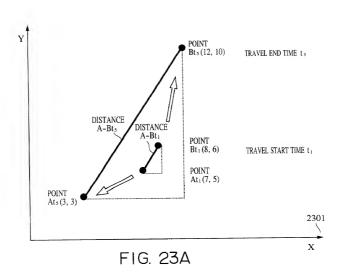


FIG. 22B



DISTANCE BETWEEN DESIGNATED POSITIONS A AND B, AND AMOUNT OF CHANGE

	DISTANCE BETWEEN A AND B	MAGNIFICATION (DISTANCE t _n /DISTANCE t ₁)	-23
t_1	1.118	100%	
t ₂	4.081	365%	
t ₃	7.080	633%	
t ₄	9.552	854%]
ts.	11.402	1020%]

FIG. 23B

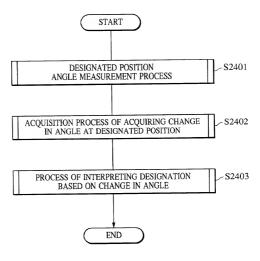


FIG. 24

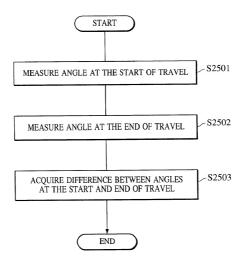


FIG. 25

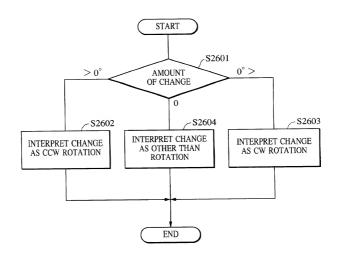


FIG. 26

CW ROTATION

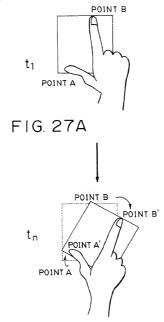
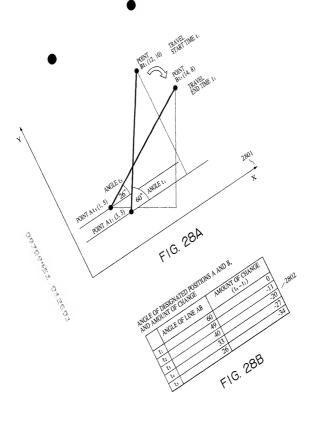


FIG. 27B



CCW ROTATION

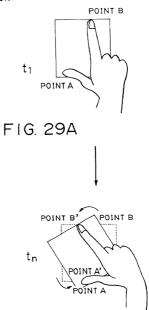
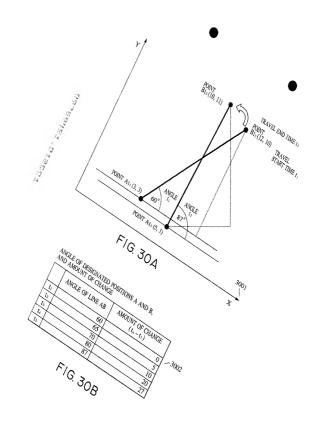


FIG. 29B



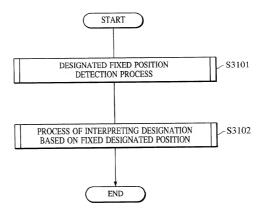


FIG. 31

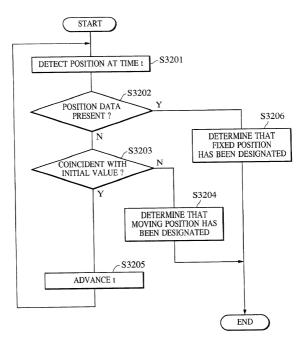


FIG. 32

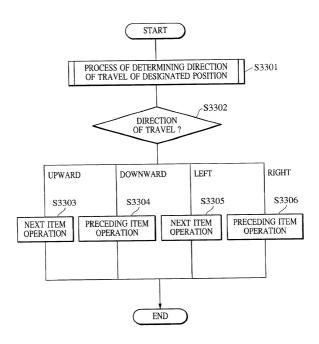


FIG. 33

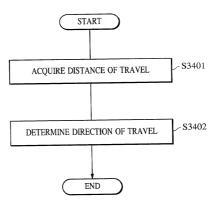


FIG. 34

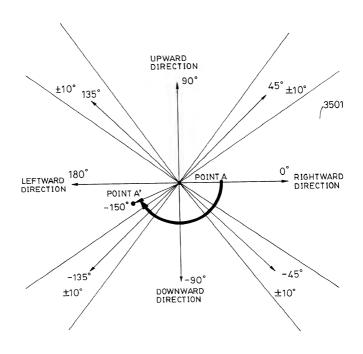


FIG. 35

LEFTWARD TRAVEL

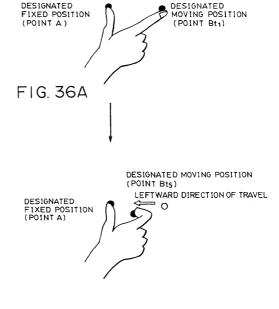
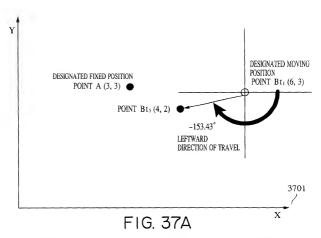


FIG. 36B



DESIGNATED FIXED POSITION POSITION DATA OF POINT A

	Ax	Ay
\mathbf{t}_1	3	3
t ₂	3	3
t ₃	3	3
t ₄	3	3
t ₅	3	3

FIG. 37B

DESIGNATED MOVING POSITION POSITION DATA OF POINT B

_3702

_3703

	Bx	В
t_1	6.0	3.0
t ₂	5.3	2.3
t ₃	4.7	1.7
t4	4.3	1.2
t ₅	4.0	2.0

FIG. 37C

DESIGNATED POSITION TRAVEL DATA

	TRAVEL OF POINT A	TRAVEL OF POINT B	DIRECTION OF TRAVEL (DEGREES)
tı	0.000	0.000	-153.43
t ₂	0.000	0.000	-153.43
t ₃	0.000	1.862	-153.43
t ₄	0.000	2.453	-153.43
t ₅	0.000	2.236	153.43

FIG. 37D

UPWARD TRAVEL

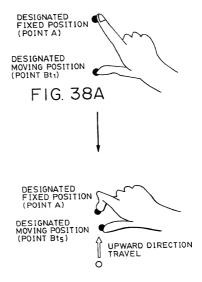
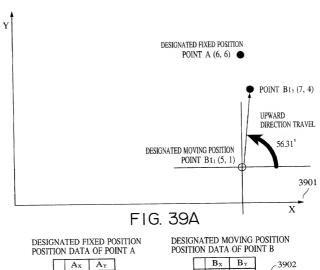


FIG. 38B



	Ax	Ay
t_1	6	6
t ₂	6	6
t ₃	6	6
t ₄	6	6
t.	6	6

FIG. 39B

	$\mathbf{B}_{\mathbf{x}}$	Вч
\mathbf{t}_1	5.0	1.0
t ₂	5.6	1.8
t ₃	6.0	2.3
t ₄	6.6	3.5
t ₅	7.0	4.0

FIG. 39C

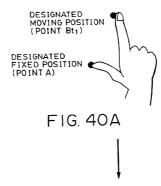
3903

DESIGNATED	POSITION	TRAVEL	DATA
------------	----------	--------	------

_	TRAVEL OF POINT A	TRAVEL OF POINT B	DIRECTION OF TRAVEL
t1	0.000	0.000	0.00
t ₂	0.000	1.000	53.13
t ₃	0.000	1.640	52.43
t ₄	0.000	2.968	57.38
t ₅	0.000	3.606	56.31

FIG. 39D

DOWNWARD TRAVEL



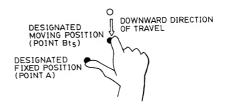
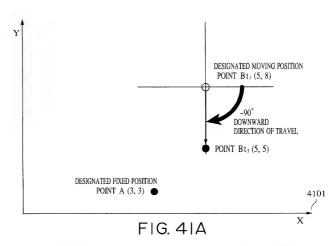


FIG. 40B



DESIGNATED FIXED POSITION POSITION DATA OF POINT A

	Ax	Ay
t_1	3	3
t ₂	3	3
t ₃	3	3
t ₄	3	3
ts.	3	3

FIG. 41B

DESIGNATED MOVING POSITION POSITION DATA OF POINT B

₇4102

	Bx	В
t ₁	5.0	8.0
t ₂	5.0	7.2
tз	5.0	6.5
t4	5.0	5.6
t ₅	5.0	5.0

FIG. 41C

4103

DESIGNATED POSITION TRAVEL DATA

1		TRAVEL OF POINT A	TRAVEL OF POINT B	DIRECTION OF TRAVEL
1	t ₁	0.000	0.000	0.00
	t ₂	0.000	0.800	-90.00
	t3	0.000	1.500	-90.00
	t4	0.000	2.400	-90.00
	t.	0.000	3,000	-90.00

FIG. 41D

RIGHTWARD TRAVEL

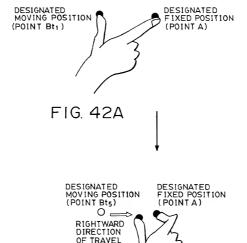
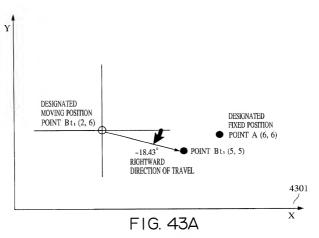


FIG. 42B



DESIGNATED FIXED POSITION POSITION DATA OF POINT A

 Ax
 Ay

 t1
 6
 6

 t2
 6
 6

 t3
 6
 6

 t4
 6
 6

 t5
 6
 6

FIG. 43B

DESIGNATED MOVING POSITION POSITION DATA OF POINT B

OIT DITTIL OF TO		
	Bx	Ву
t_1	2.0	6.0
t2	2.8	5.7
t ₃	3.5	5.6
t4	4.2	5.2
t ₅	5.0	5.0

FIG. 43C

DESIGNATED POSITION TRAVEL DATA

4303

-4302

	TRAVEL OF POINT A	TRAVEL OF POINT B	DIRECTION OF TRAVEL
t_1	0.000	0.000	0.00
t_2	0.000	4.892	-40.86
t ₃	0.000	4.383	-34.78
t ₄	0.000	3.672	-29.36
t ₅	0.000	3.162	-18.43

FIG. 43D

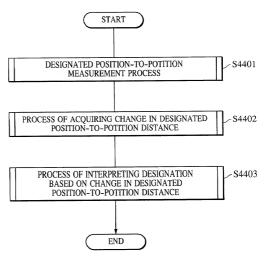


FIG. 44

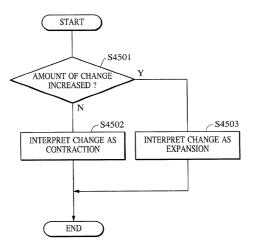


FIG. 45

CONTRACTION OPERATION

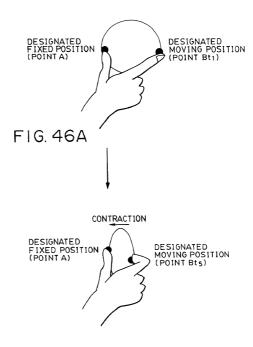
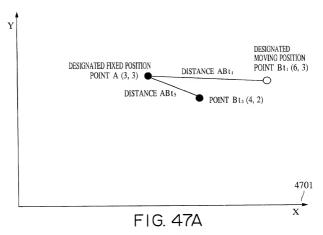


FIG. 46B



DESIGNATED FIXED POSITION POSITION DATA OF POINT A

	Ax	A_{Y}
t ₁	3	3
t ₂	3	3
t ₃	3	3
t4	3	3
t ₅	3	3

FIG. 47B

DESIGNATED MOVING POSITION POSITION DATA OF POINT B

П	Bx	В	-4702
t ₁	6.0	3.0	
t ₂	5.3	2.3	
t ₃	4.7	1.7	
t4	4.3	1.2	
t ₅	4.0	2.0	

FIG. 47C

DATA OF CHANGE IN DESIGNATED POSITION-TO-POSITION DISTANCE 4703

	DISTANCE BETWEEN A AND B	MAGNIFICATION (DISTANCE t _n /DISTANCE t ₁)	DISTANCE t _n / DISTANCE t ₁
t_1	3.000	100%	0.000
t ₂	2.436	81%	-0.564
t ₃	2.114	70%	-0.886
t ₄	2.240	75%	-0.760
ts	1.414	47%	-1.586

FIG. 47D

EXPANSION OPERATION

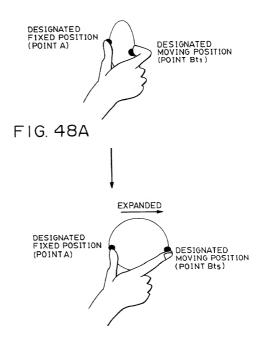
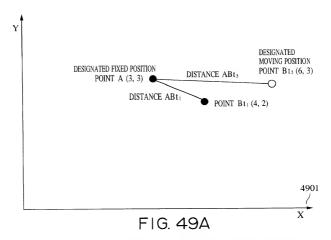


FIG. 48B



DESIGNATED FIXED POSITION POSITION DATA OF POINT A

	Ax	Ay
t_1	3	3
t ₂	3	3
t ₃	3	3
t ₄	3	3
ts.	3	3

FIG. 49B

DESIGNATED MOVING POSITION POSITION DATA OF POINT B

-4902

	$\mathbf{B}_{\mathbf{x}}$	\mathbf{B}_{Y}
t_1	4.0	2.0
t ₂	4.5	2.2
t ₃	5.2	2.5
t ₄	5.8	2.8
t ₅	6.0	3.0

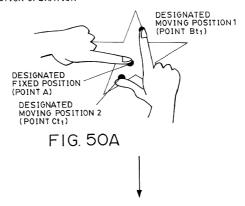
FIG. 49C

DATA OF CHANGE IN DESIGNATED POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN A AND B	MAGNIFICATION (DISTANCE t _n /DISTANCE t ₁)	4903
t_1	1.414	100%	
t ₂	1.700	120%	
t ₃	2.256	160%	
t ₄	2.807	198%	
t ₅	3.000	212%	

FIG. 49D

CONTRACTION OPERATION



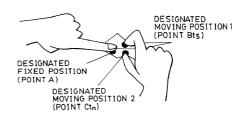
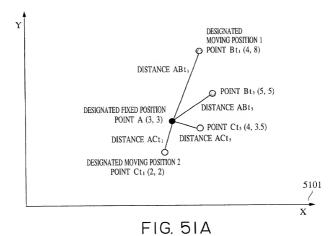


FIG. 50B



5102 DESIGNATED MOVING POSITION 2 POSITION DATA OF POINT C FIG. 51D 2.3 2.8 3.3 2.0 ť č 2.0 2.8 3.4 4.0 t2 t3 ī Ţ DESIGNATED MOVING POSITION 1 POSITION DATA OF POINT B FIG. 51C 8.0 6.3 5.8 5.0 à 5.0 Bx 12 t3 t4 DESIGNATED FIXED POSITION POSTTION DATA OF POINT A FIG. 51B Ą Ä 2 5

DATA 1 OF CHANGE IN DESIGNATED POSITION-TO-POSITION DISTANCE MACHINICATION

	. 6	. 0		. 0	. 0
MAGNIFICATION (DISTANCE t _{r.} / DISTANCE t ₁)	100%	%98	%0L	%49	25%
DISTANCE BETWEEN A AND B	5.099	4.368	3.585	3.276	2.828
	=	12	t3	4	t5

DATA 2 OF CHANGE IN DESIGNATED
POSITION-TO-POSITION DISTANCE

BETWEEN A AND B (DISTANCE t., IDSTANCE t.)

1.414 100%
0.728 510%
0.447 32%

1 2 2 4

F1G. 51F

FIG. 51E

1.118

0.854

%09

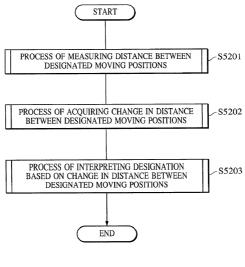


FIG. 52

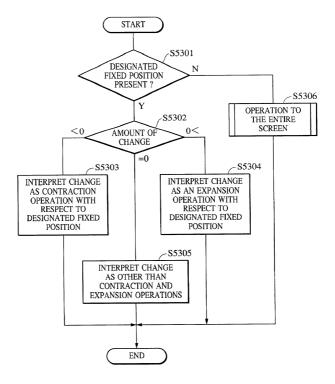
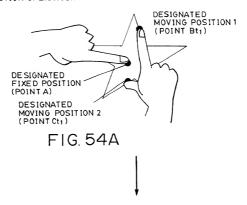


FIG. 53

CONTRACTION OPERATION



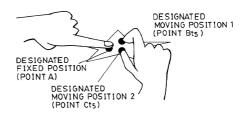
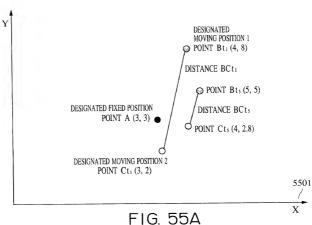


FIG. 54B



DESIGNAT	TED FL	XED	POSIT	10N
POSITION	DATA	0F	POINT	Α

	Ax	Ay
t ₁	3	3
t ₂	3	3
t ₃	3	3
t ₄	3	3
t ₅	3	3

DESIGNATED MOVING POSITION POSITION DATA OF POINT B

П	Вх	Ву
t ₁	4.0	8.0
t ₂	4.2	7.2
t ₃	4.4	6.3
t ₄	4.7	5.8
ts	5.0	5.0

DESIGNATED MOVING POSITION POSITION DATA OF POINT C -5502

ĺ		Cx	C_{Y}	/
	t ₁	3.0	2.0	
	t_2	3.2	2.2	
	t3	3.4	2.4	
	t4	3.8	2.6	1
	t ₅	4.0	2.8	1

FIG. 55B

5503

FIG. 55C FIG. 55D

DATA OF CHANGE IN DESIGNATED POSITION-TO-POSITION DISTANCE

	DISTANCE BETWEEN B AND C	MAGNIFICATION (DISTANCE t _n / DISTANCE t ₁)
t ₁	6.083	100%
t ₂	5.099	84%
t ₃	4.026	66%
t ₄	3.324	55%
t ₅	2.417	40%

FIG. 55E

CONTRACTION OPERATION

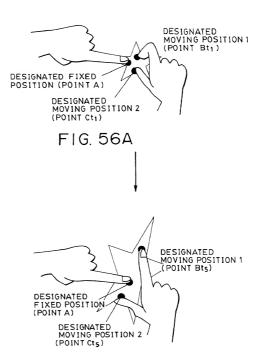
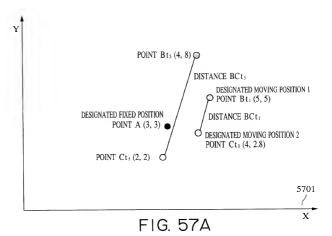


FIG. 56B



DESIGNATED FIXED POSITION POSITION DATA OF POINT A

	Ax	Ay
\mathbf{t}_1	3	3
t ₂	3	3
t ₃	3	3
t ₄	3	3
te	3	3

DESIGNATED MOVING POSITION 1 POSITION DATA OF POINT B

	Вх	Ву
\mathbf{t}_1	5.0	5.0
t_2	4.7	5.8
t ₃	4.4	6.3
t ₄	4.2	7.2
t ₅	4.0	8.0

DESIGNATED MOVING POSITION 2 POSITION DATA OF POINT C

			5702
	C_x	Cy	/3/02
t_1	4.0	2.8	
t ₂	3.8	2.6	
t ₃	3.4	2.4	
t ₄	2.8	2.2	
t ₅	2.0	2.0	1

FIG. 57B FIG. 57C FIG. 57D

DATA OF CHANGE IN DESIGNATED	
POSITION-TO-POSITION DISTANCE	

	DISTANCE BETWEEN B AND C	MAGNIFICATION (DISTANCE t _n /DISTANCE t ₁)
t_1	2.417	100%
t ₂	3.324	138%
t ₃	4.026	167%
t ₄	5.192	215%
t ₅	6.325	262%

FIG. 57E

-5703

DESIGNATING A PLURALITY OF MOVING POINTS

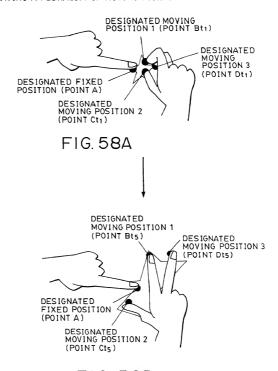


FIG. 58B

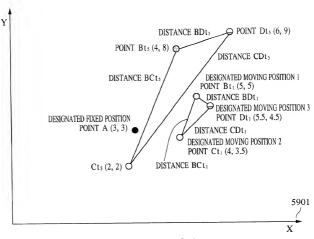


FIG. 59A



DATA 3 (POSITION	DISTAN(BETWEEN C			,			
		크	t_2	t3	t4	ts	ı
DATA 2 OF CHANGE IN DESIGNATED POSITION-TO-POSITION DISTANCE	MAGNIFICATION (DISTANCE t _n / DISTANCE t ₁)	100%	130%	221%	266%	316%	
DATA 2 OF CHAPOSITION-TO-F	DISTANCE BETWEEN B AND D	0.707	0.922	1.565	1.879	2.236	
		ţ	t_2	t3	Į,	ts	
DATA I OF CHANGE IN DESIGNATED POSITION-TO-POSITION DISTANCE	DISTANCE MAGNIFICATION BETWEEN B AND C (DISTANCE t ₁)	100%	147%	202%	283%	351%	
DATA 1 OF CH. POSITION-TO-1	DISTANCE BETWEEN B AND C	1.803	2.657	3.640	5.096	6.325	
		1=	1	1-	1.2	+	;

268% 360% 447%

3.245 6.488 8.062

1.803 4.837 FIG. 59H

FIG. 59G

FIG. 59F

100% 180%

AND D | (DISTANCE ta / DISTANCE t1)

MAGNIFICATION N-TO-POSITION DISTANCE

OF CHANGE IN DESIGNATED

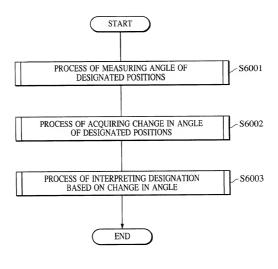


FIG. 60

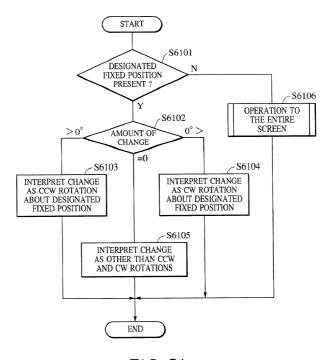


FIG. 61

CW ROTATION OPERATION

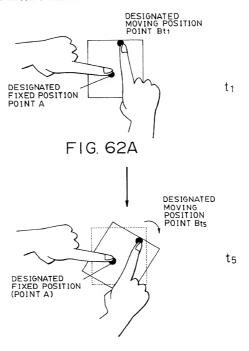
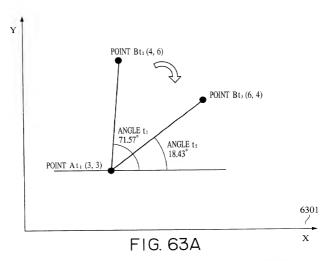


FIG. 62B



DESIGNATED FIXED POSITION POSITION DATA OF POINT A

	Ax	Ay	-6302A
\mathbf{t}_1	3	3	
t_2	3	3	
t ₃	3	3	
t4	3	3	
t ₅	3	3]

DESIGNATED MOVING POSITION POSITION DATA OF POINT B

	Bx	$\mathbf{B}_{\mathtt{Y}}$	∠6302B
t_1	4.0	6.0	
t ₂	4.7	5.7	
t ₃	5.2	5.3	
t ₄	5.7	4.6	
t ₅	6.0	4.0	

FIG. 63B

FIG. 63C

DATA OF CHANGE IN ANGLE OF DESIGNATED POSITIONS

	ANGLE OF DESIGNATED POSITIONS	AMOUNT OF CHANGE
t_1	71.57	0.00
t ₂	57.57	-14.00
t ₃	45.91	-25.66
t ₄	30.67	-40.90
t ₅	18.43	-53.13

6303

FIG. 63D

CCW ROTATION OPERATION

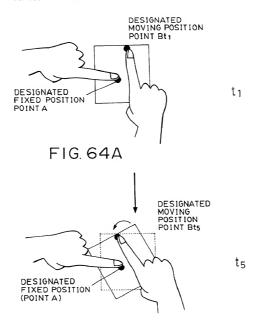
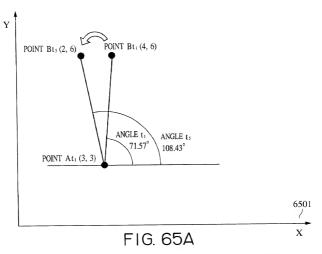


FIG. 64B



DESIGNATED FIXED POSITION POSITION DATA OF POINT A

 $\begin{array}{|c|c|c|c|c|}\hline & A_X & A_Y \\ \hline t_1 & 3 & 3 \\ \hline t_2 & 3 & 3 \\ \hline t_3 & 3 & 3 \\ \hline t_4 & 3 & 3 \\ \hline \end{array}$

DESIGNATED MOVING POSITION POSITION DATA OF POINT B

	Bx	\mathbf{B}_{Y}	_6502B
t_1	4.0	6.0	
t_2	3.5	6.1	
t ₃	3.0	6.2	
t4	2.5	6.1	
t ₅	2.0	6.0	

FIG. 65B

FIG. 65C

DATA OF CHANGE IN ANGLE OF DESIGNATED POSITIONS

	ANGLE OF DESIGNATED FIXED POSITIONS	AMOUNT OF CHANGE	c6503
t ₁	71.57	0.00	<i>J</i>
t ₂	80.90	9.34	
t ₃	90.00	18.43	
t ₄	99.10	27.53	055
t ₅	108.43	36.87] FIG. 65D

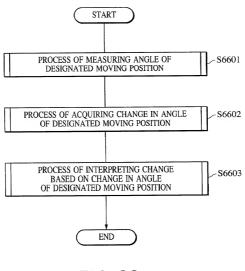


FIG. 66

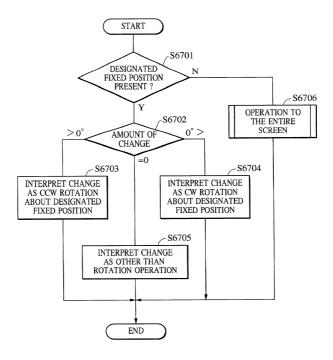


FIG. 67

CW ROTATION OPERATION

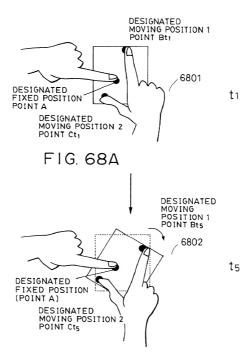
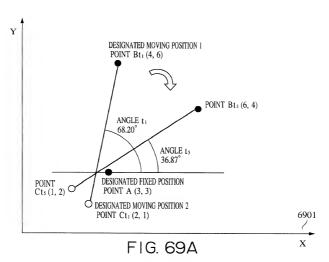


FIG. 68B



DESIGNATED FIXED POSITION POSITION DATA OF POINT A

POSITION DATA OF POINT B

DESIGNATED MOVING POSITION DESIGNATED MOVING POSITION POSITION DATA OF POINT C

omen billi of Tolki A				
	Ax	Ay		
t ₁	3	3		
t ₂	3	3		
t ₃	3	3	l	
t4	3	3		
t ₅	3	3		

	Вх	ВΥ
\mathbf{t}_1	4.0	6.0
t_2	4.5	5.5
t ₃	5.0	5.0
t4	5.5	4.5
t ₅	6.0	4.0

	Cx	C_{Y}	∠6902
t ₁	2	1	/
t ₂	1.8	1.2	
t ₃	1.6	1.5	
t ₄	1.4	1.8	
t ₅	1	2	

FIG. 69B FIG. 69C FIG. 69D

DATA OF CHANGE IN ANGLE OF DESIGNATED MOVING POSITIONS

	ANGLE OF DESIGNATED MOVING POSITION	AMOUNT OF CHANGE
t ₁	68.20	0.00
t ₂	60.95	-7.25
t ₃	53.13	-15.07
t4	45.00	-23.20
+.	26 97	21 22

-6903

-31.33 FIG. 69E

CCW ROTATION OPERATION

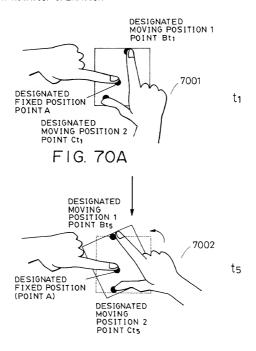
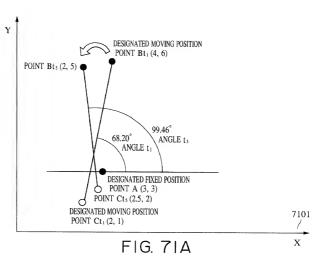


FIG. 70B



DESIGNATED FIXED POSITION DESIGNATED MOVING POSITION DESIGNATED MOVING POSITION POSITION DATA OF POINT A POSITION DATA OF POINT B POSITION DATA OF POINT C

	Ax	Ay	
t_1	3	3	
t ₂	3	3	
t ₃	3	3	
t ₄	3	3	
t ₅	3	3	

Вx	Вч
4.0	6.0
3.5	5.8
3.0	5.4
2.5	5.2
2.0	5.0
	3.5 3.0 2.5

_		TOIN	- 1
	$\mathbf{C}_{\mathbf{x}}$	$\mathbf{C}_{\mathtt{Y}}$	~7102
t_1	2	1)
t_2	2.1	1.2	
t ₃	2.3	1.5	
t4	2.4	1.8	
t ₅	2.5	2	

FIG. 7IB FIG. 7IC FIG. 7ID

DATA OF CHANGE IN ANGLE OF DESIGNATED MOVING POSITIONS

	ANGLE OF DESIGNATED MOVING POSITION	AMOUNT OF CHANGE
t ₁	68.20	0.00
t ₂	73.07	4.87
t ₃	79.82	11.63
t4	88.32	20.12
t ₅	99.46	31.26

~7103

FIG. 71E

ROTATION OPERATION ABOUT THE CENTER OF GRAVITY OF DESIGNATED MOVING POSITION

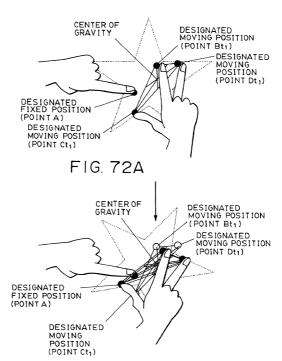


FIG. 72B

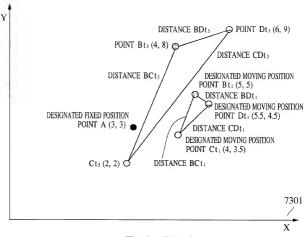
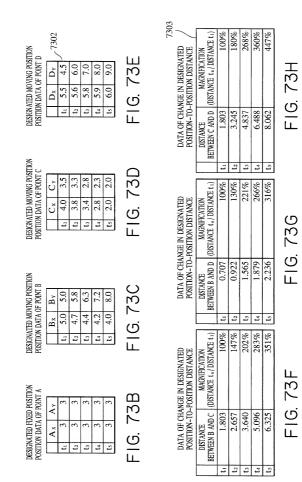


FIG. 73A



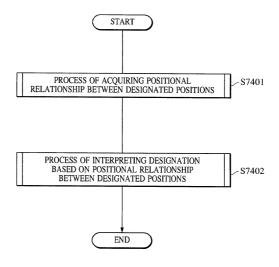


FIG. 74

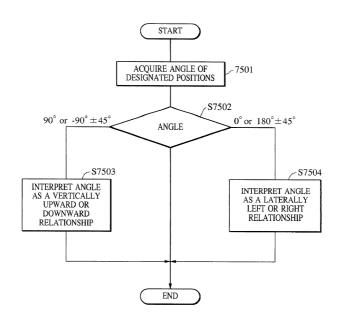


FIG. 75

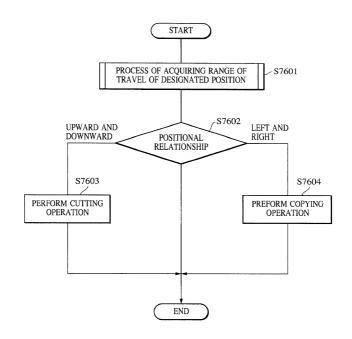


FIG. 76

PARALLEL TRAVEL WITH VERTICAL RELATIONSHIP MAINTAINED

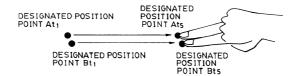
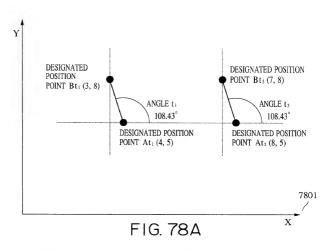


FIG. 77



DESIGNATED POSITION POSITION DATA OF POINT A

	Ax	Ay
t_1	4.0	5.0
t ₂	5.0	5.0
t ₃	6.0	5.0
t4	7.0	5.0
t ₅	8.0	5.0

FIG. 78B

DESIGNATED POSITION POSITION DATA OF POINT B

	Bx	В
\mathbf{t}_1	3.0	8.0
t ₂	4.0	8.0
t ₃	5.0	8.0
t ₄	6.0	8.0
t ₅	7.0	8.0

7802

FIG. 78C

POSITION DATA OF DESIGNATED POSITIONS

ANGLE OF DESIGNATED POSITIONS	
108.43	\mathbf{t}_1
108.43	t ₂
108.43	t ₃
108.43	t ₄
108.43	t ₅
	108.43 108.43 108.43 108.43

FIG. 78D

PARALLEL TRAVEL WITH LATERAL RELATIONSHIP MAINTAINED

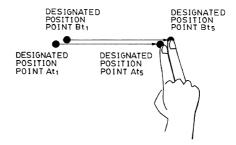
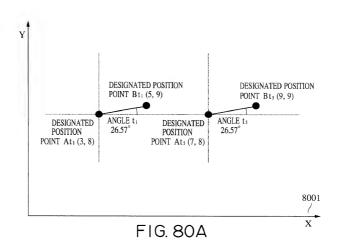


FIG. 79



DESIGNATED POSITION POSITION DATA OF POINT A

	Ax	Ay
t_1	3.0	8.0
t ₂	4.0	8.0
t ₃	5.0	8.0
t ₄	6.0	8.0
ts.	7.0	8.0

FIG. 80B

DESIGNATED POSITION POSITION DATA OF POINT B

	Bx	В
t_1	5.0	9.0
t_2	6.0	9.0
t ₃	7.0	9.0
t4	8.0	9.0
t ₅	9.0	9.0

~8002

FIG. 80C

POSITION DATA OF DESIGNATED POSITIONS ANGLE OF PEGIONATED POSTERONS

ı		ANGLE OF DESIGNATED POSITIONS	
ĺ	\mathbf{t}_1	26.57	/ 80
	t_2	26.57	_
	tз	26.57	
-	t4	26.57	
	t ₅	26.57	-

003

IG. 80D

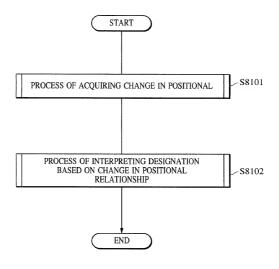
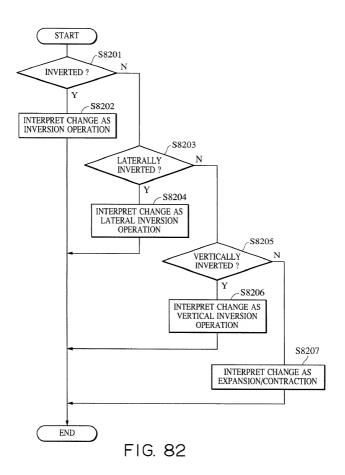
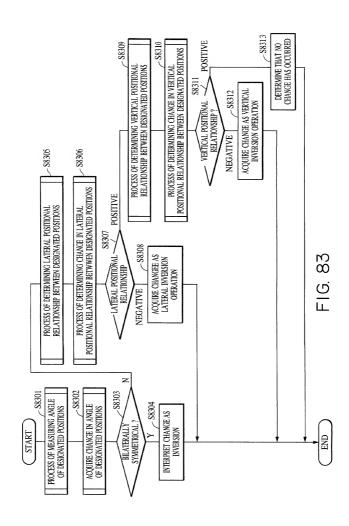


FIG. 81





REVERSAL OPERATION

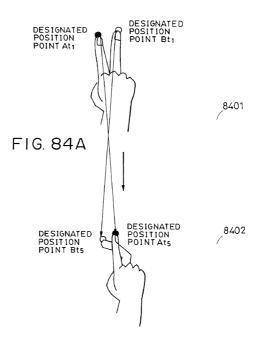
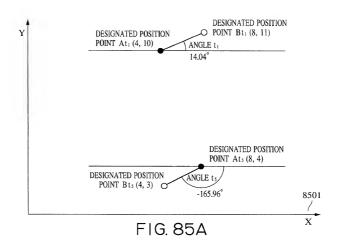


FIG. 84B



DESIGNATED POSITION POSITION DATA OF POINT A

	Ax	Ay
t_1	4.0	10.0
t ₂	5.0	8.0
tз	6.0	6.0
t ₄	7.0	5.0
ts.	8.0	4.0

DESIGNATED POSITION POSITION DATA OF POINT B

	Bx	Вγ
$t_{\rm I}$	8.0	11.0
t ₂	7.0	9.0
t ₃	6.0	7.0
t4	5.0	5.0
t ₅	4.0	3.0

~8502

8503

FIG. 85B

FIG. 85C

DATA OF CHANGE IN POSITIONAL RELATIONSHIP

	X DIRECTION	Y DIRECTION	ANGLE OF DESIGNATED POSITIONS	CHANGE IN POSITIONAL RELATIONSHIP
t ₁	-4.0	-1.0	14.04	0.00
t ₂	-2.0	-1.0	26.57	-12.53
t ₃	0.0	-1.0	90.00	-75.99
t ₄	2.0	0.0	180.00	-165.96
t ₅	4.0	1.0	-165.96	180.00

FIG. 85D

LATERAL INVERSION

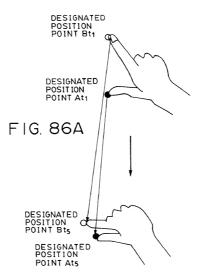
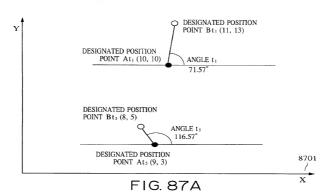


FIG. 86B



DESIGNATED POSITION POSITION DATA OF POINT A

	Ax	Ay
t_1	10.0	10.0
t ₂	9.8	8.0
tз	9.6	6.0
t4	9.3	5.0
t ₅	9.0	3.0

DESIGNATED POSITION POSITION DATA OF POINT B

	Вх	Вγ	
t_1	11.0	13.0	
t ₂	10.8	9.0	
t ₃	10.6	7.0	
t4	10.3	6.0	
t ₅	8.0	5.0	

8702

8703

FIG. 87B

FIG. 87C

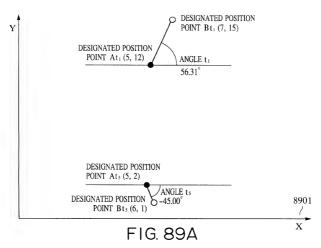
DATA OF CHANGE IN POSITIONAL RELATIONSHIP

	X DIRECTION	Y DIRECTION	ANGLE OF DESIGNATED POSITIONS	CHANGE IN POSITIONAL RELATIONSHIP
t ₁	-1.0	-3.0	71.57	0.00
t2	-1.0	-1.0	45.00	26.57
tз	-1.0	-1.0	45.00	26.57
t ₄	-1.0	-1.0	45.00	26.57
t ₅	1.0	-2.0	116.57	45.00

FIG. 87D

VERTICAL INVERSION

DESIGNATED POSITION
DESIGNATED POSITION



DESIGNATED POSITION POSITION DATA OF POINT A

	Ax	Ay
t_1	5.0	12.0
t_2	5.0	9.0
t ₃	5.0	6.0
t ₄	5.0	3.0
t ₅	5.0	2.0

DESIGNATED POSITION POSITION DATA OF POINT B

	Bx	\mathbf{B}_{Y}
t_1	7.0	15.0
t_2	6.8	11.0
tз	6.5	8.0
t4	6.2	4.0
t ₅	6.0	1.0

-8902

8903

FIG. 89B

FIG. 89C

DATA OF CHANGE IN POSITIONAL RELATIONSHIP

	X DIRECTION	Y DIRECTION	ANGLE OF DESIGNATED POSITIONS	CHANGE IN POSITIONAL RELATIONSHIP
tı	-2.0	-3.0	56.31	0.00
t ₂	-1.8	-2.0	48.01	8.30
t ₃	-1.5	-2.0	53.13	3.18
t ₄	-1.2	-1.0	39.81	16.50
t ₅	-1.0	1.0	-45.00	101.31

FIG. 89D

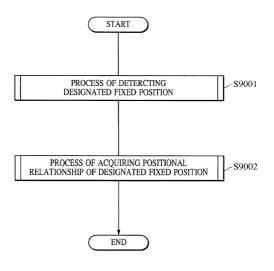


FIG. 90

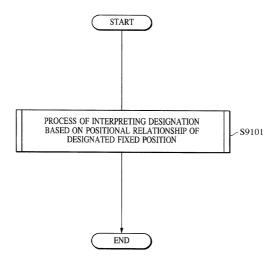
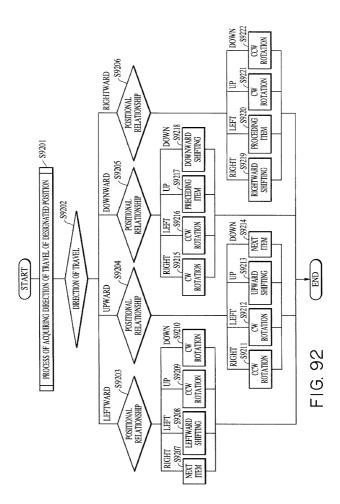


FIG. 91



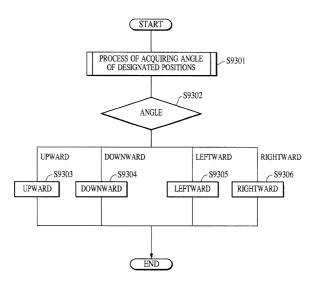


FIG. 93

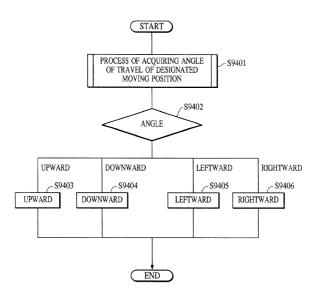
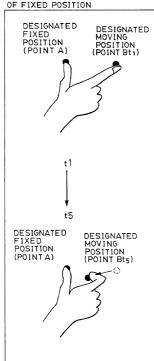


FIG. 94



MOVING POSITION ON LEFT



MOVING POSITION ON RIGHT OF FIXED POSITION

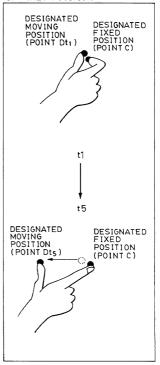
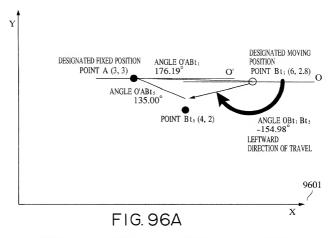


FIG. 95A

FIG. 95B



DESIGNATED FIXED POSITION POSITION DATA OF POINT A

	Ax	Ay
t ₁	3	3
t ₂	3	3
t ₃	3	3
t4	3	3
ts	3	3

FIG. 96B

DESIGNATED MOVING POSITION POSITION DATA OF POINT B

_9602

_9603

	Bx	В	
t_1	6.0	3.0	
t ₂	5.3	2.3	
t ₃	4.7	1.7	
t4	4.3	1.2	
t ₅	4.0	2.0	

FIG. 96C

DATA OF TRAVEL OF DESIGNATED MOVING POSITION

	TRAVEL OF POINT A	TRAVEL OF POINT B	ANGLE OF DESIGNATED POSITIONS	DIRECTION OF TRAVEL
ti	0.000	0.000	176.19	-158.20
t ₂	0.000	0.000	163.30	-154.98
t ₃	0.000	1.729	142.05	-154.98
t ₄	0.000	2.310	126.53	-154.98
t ₅	0.000	2.154	135.00	-154.98

FIG. 96D

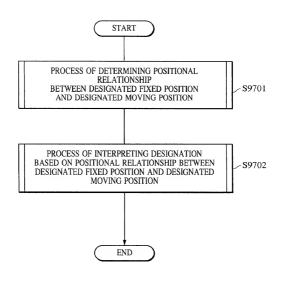


FIG. 97

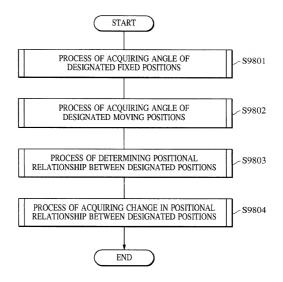


FIG. 98

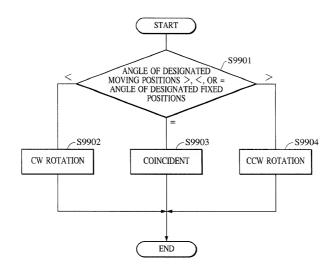
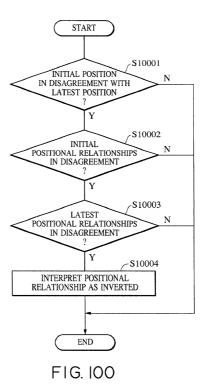


FIG. 99



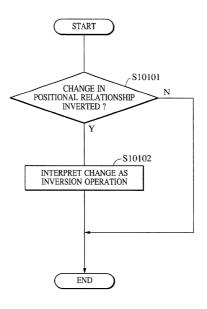


FIG. 101

SYMMETRICAL INVERSION

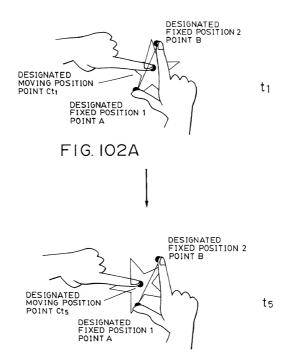
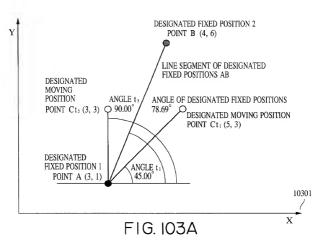


FIG. 102B



DESIGNATED FIXED POSITION POSITION DATA OF POINT A

> Ax A_{Y}

 t_1 3.0 1.0

t₃ 3.0 t4

3.0 1.0

3.0 1.0

1.0

1.0

DESIGNATED FIXED POSITION POSITION DATA OF POINT B

	Bx	\mathbf{B}_{Y}
\mathbf{t}_1	4.0	6.0
t ₂	4.0	6.0
t ₃	4.0	6.0
t ₄	4.0	6.0
ts	4.0	6.0

DESIGNATED MOVING POSITION POSITION DATA OF POINT C

	Cx	Cy	- 10302
t ₁	5.0	3.0	
t ₂	4.5	3.0	
t ₃	4.0	3.0	
t ₄	3.5	3.0	
t ₅	3.0	3.0	

3.0

FIG. 103B FIG. 103C FIG. 103D

POSITIONAL RELATIONSHIP DATA OF TWO DESIGNATED FIXED POSITIONS AND DESIGNATED MOVING POSITION

	ANGLE OF FIXED POSITIONS	ANGLE OF MOVING POSITIONS
t_1	78.69	45.00
t ₂	78.69	53.13
t ₃	78.69	63.43
t ₄	78.69	75.96
t ₅	78.69	90.00

-10303

FIG.103F

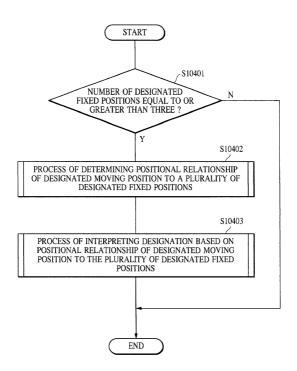


FIG. 104

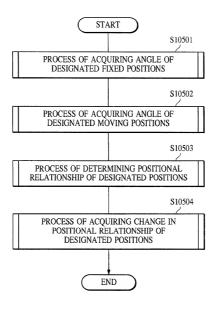
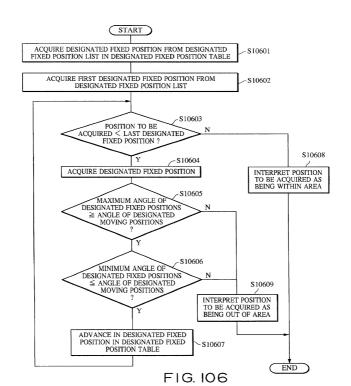
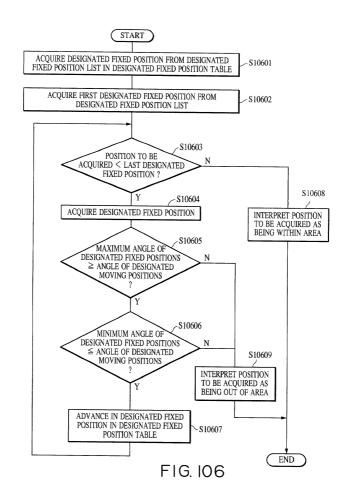


FIG. 105





WITHIN AREA

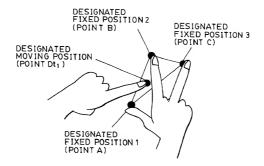
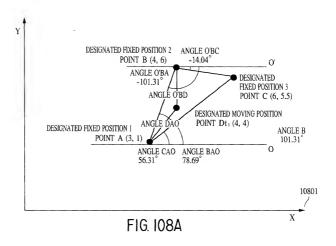


FIG. 107



DESIGNATED FIXED	DESIGNATED FIXED	DESIGNATED FIXED	DESIGNATED
POSITION	POSITION	POSITION	MOVING POSITION
POSITION DATA OF	POSITION DATA OF	POSITION DATA OF	POSITION DATA OF
POINT A	POINT B	POINT C	POINT D 10802
A _X A _Y	B _X B _Y	C _X C _Y	D_X D_Y
t ₁ 3.0 1.0	t ₁ 4.0 6.0	t ₁ 6.0 5.5	t ₁ 4.0 4.0

FIG. 108B FIG. 108C FIG. 108D FIG. 108E

DATA OF CHANGE IN POSITIONAL RELATIONSHIP OF DESIGNATED FIXED POSITIONS

	ANGLE BAO	ANGLE CAO	ANGLE DAO	ANGLE O'BA	ANGLE O'BC	ANGLE O'BD
t ₁	78.69	56.31	71.57	-101.31	-14.04	-90.00

FIG. 108F

_10803

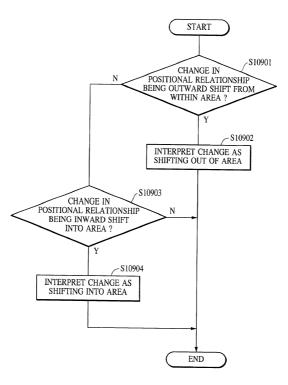


FIG. 109

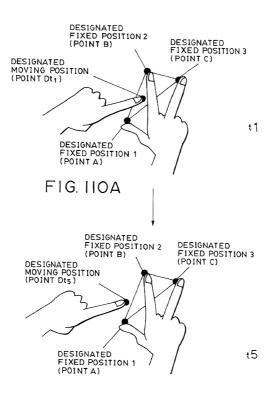
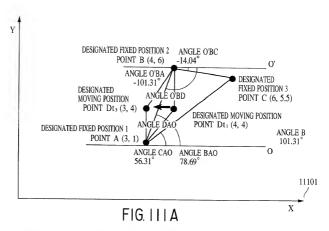


FIG. IIOB



PO:	SITION	ED FIXED DATA OF	PO:	SITION	ED FIXED DATA OF	POS POS	SITION	ED FIXED DATA OF	MO POS	VING PO	ED OSITION DATA OF	11102
L	A_X	Ay		Вx	Ву		Cx	CY		Dx	Dy	7
t_1	3.0	1.0	t_1	4.0	6.0	\mathbf{t}_1	6.0	5.5	t ₁	4.0	4.0	
t_2	3.0	1.0	t ₂	4.0	6.0	t ₂	6.0	5.5	t ₂	3.8	4.0	
t ₃	3.0	1.0	t ₃	4.0	6.0	t ₃	6.0	5.5	t ₃	3.6	4.0	
t4	3.0	1.0	t 4	4.0	6.0	t ₄	6.0	5.5	t ₄	3.3	4.0	
t ₅	3.0	1.0	ts	4.0	6.0	ts	60	5.5	ts	3.0	4.0	

FIG. IIIB FIG. IIIC FIG. IIID FIG. IIIE

-11103

DATA OF CHANGE IN POSITIONAL RELATIONSHIP OF DESIGNATED FIXED POSITIONS

_	1 0011010					
	ANGLE BAO	ANGLE CAO	ANGLE DAO	ANGLE O'BA	ANGLE O'BC	ANGLE O'BD
t_1	78.69	56.31	71.57	-101.31	-14.04	-90.00
t ₂	78.69	56.31	57.07	-101.31	-14.04	-95.71
t ₃	78.69	56.31	78.69	-101.31	-14.04	-101.31
t ₄	78.69	56.31	84.29	-101.31	-14.04	-109.29
t_5	78.69	56.31	90.00	-101.31	-14.04	-116.57

FIG. IIIF

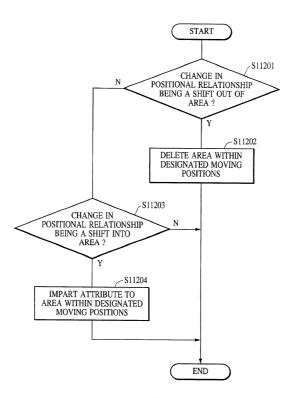


FIG. 112

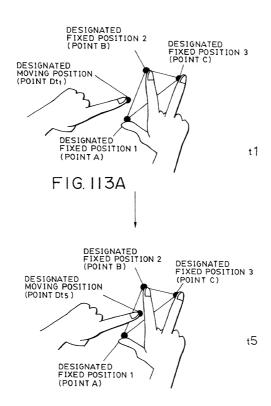
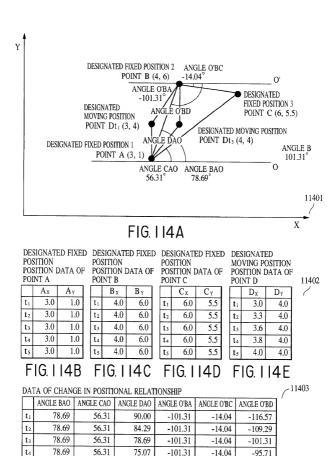


FIG. 113B



-101.31 FIG. 114F

-14.04

-90.00

71.57

78.69

56.31

 t_5

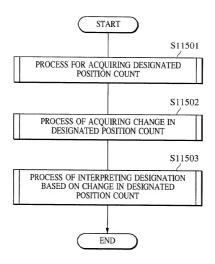


FIG. 115

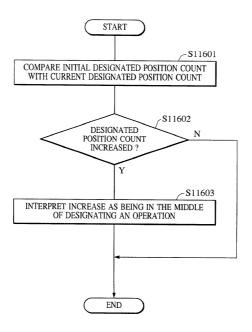


FIG. 116

TIME t 1 INITIAL DESIGNATED DESIGNATED POSITION POINT At 1 POINT Bt 1 In a system for preparing a text by using a knowledge base, knowledge relating to input information is first retrieved from the knowledge base. Then, plurality of kinds of im generated it bed from the input.

in a system for preparing a text by using a knowledge base, knowledge base, knowledge base. Then, a plurality of kinds of inthe street from the knowledge base. Then, a plurality of kinds of inthe street from the input of the secretary of the selected elements of the test of the test of the test of the selected elements of the test of the test of the selected elements of the test of the selected elements of the test of the test of the selected elements of the selected elemen

FIG. 117A

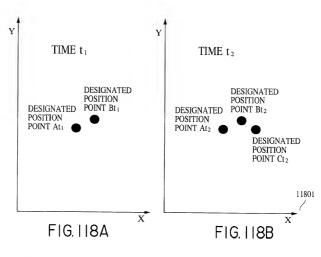
TIME t₂

DESIGNATED DESIGNATED POSITION POINT At2 POINT Bt2

In a system for preparing a text by using a knowledge base, knowledge relating to input information is first retrieved from the knowledge base. Then, a plurality of kinds of in mation used as elements of to be generated ected from the input retrieved i mation relating ubsequently, a describing er, in ehic text are output i lements of the t oing order.

DESIGNATED POSITION POINT Ct₂

FIG. 117B



DESIGNATED FIXED POSITION POSITION DATA OF POINT A

	01 101111 71				
		A_{X}	Ay		
	tı	3.0	3.0		
	t ₂	3.0	3.0		
-	t ₃	3.0	3.0		

DESIGNATED FIXED POSITION POSITION DATA OF POINT B

		$\mathbf{B}_{\mathbf{X}}$	Ву		
	t_1	4.0	4.0		
	t_2	4.0	4.0		
I	t_3	4.0	4.0		

DESIGNATED FIXED POSITION POSITION DATA OF POINT C

	C_{x}	CY	_11802
t ₁			
t ₂	5.0	3.0	
t ₃	5.0	3.0	

FIG. 118C

FIG. 118D

FIG. 118E

DATA OF DESIGNATED POSITION COUNT

	DESIGNATED POSITION COUNT	CHANGE IN INITIAL DESIGNATED POSITION COUNT	√11803
t_1	2	0	
t_2	3	1	
t ₃	3	1	

FIG. 118F

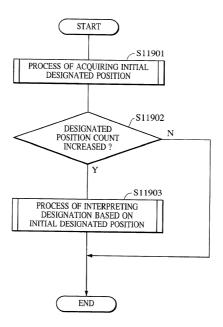


FIG. 119

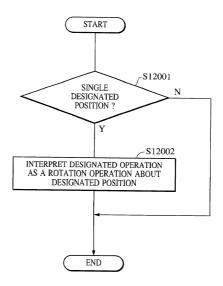


FIG. 120

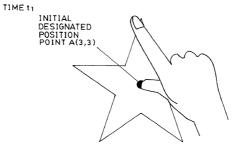


FIG. 121A

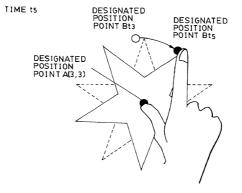
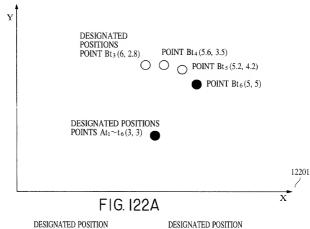


FIG. 121B



DESIGNAT	TED PC	SITION	
POSITION	DATA	OF POINT	A

	Ax	Ay
t_1	3.0	3.0
t ₂	3.0	3.0
t3	3.0	3.0
t4	3.0	3.0
t _s	3.0	3.0
t ₆	3.0	3.0

B_X B_Y 12202

	$\mathbf{B}_{\mathbf{x}}$	\mathbf{B}_{Y}
t_1		
t_2		
tз	6.0	2.8
t4	5.6	3.5
t ₅	5.2	4.2
t ₆	5.0	5.0

POSITION DATA OF POINT B

FIG. 122B

FIG. 122C

DATA OF DESIGNATED POSITION COUNT

	DESIGNATED POSITION COUNT	CHANGE IN INITIAL DESIGNATED POSITION COUNT
\mathbf{t}_1	1	0
t_2	1	0
t ₃	2	1
ţ4	2	1
t ₅	2	1
t ₆	2	1

_12203

FIG. 122D

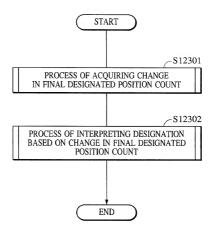


FIG. 123

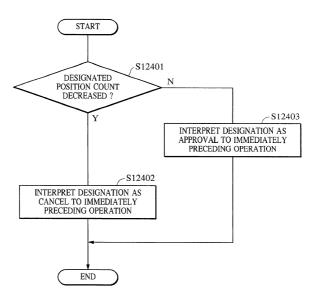


FIG. 124

TIME t₁

DESIGNATED POSITION POINT At₁ DESIGNATED POSITION POINT Bt₁

In a system for preparing a text by using a knowledge base, knowledge relating to input information is first retrieved from the knowledge base. Then, a plurality of kinds of in ation used as elements of to be generated ected from the input on and the retrieved i nation relating ubsequently, a describing er, in ehick d elements of the text are output i ements ing order. of the t

DESIGNATED
POSITION
POINT Ct1

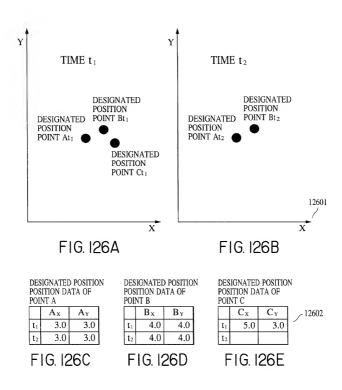
FIG. 125A

TIME to

DESIGNATED POSITION POINT At2 DESIGNATED POSITION POINT Bt₂

In a system for preparing a text by using a knowledge base, knowledge relating to input information is first retrieved from the knowledge base. Then, a plurality of kinds of intradiction used as elements of the to be cted from the input generated i ion and the retrieved in ation relating sequently, a describing r, in ehick ed elements of the text are d Then, a text to be output is of the selected elements of the te scribing order.

FIG. 125B



DATA OF DESIGNATED POSITION COUNT

	DESIGNATED POSITION COUNT	CHANGE IN INITIAL DESIGNATED POSITION COUNT	√12603
t_1	3	0	
t ₂	2	-1	

FIG. 126F

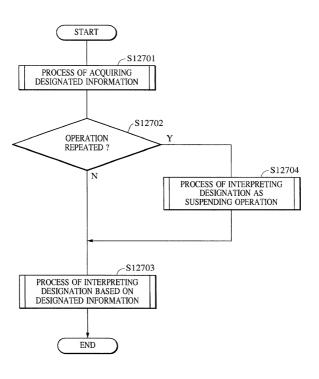


FIG. 127

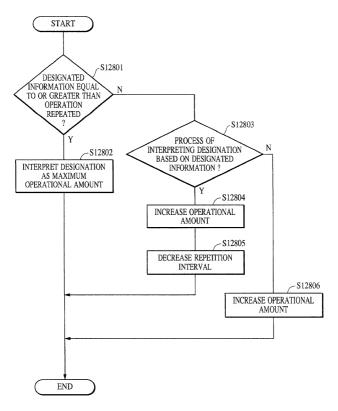


FIG. 128

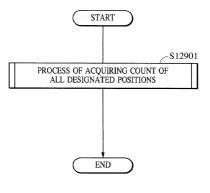
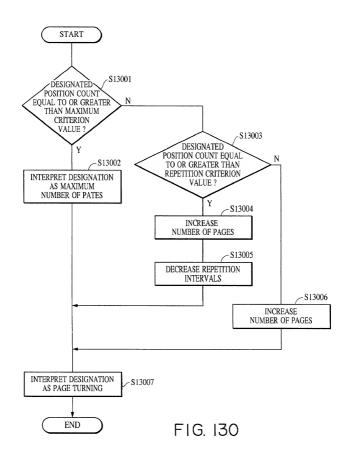
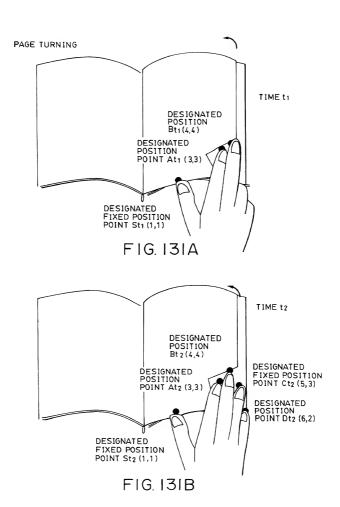
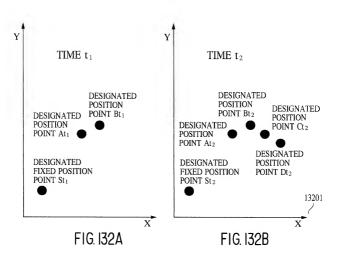


FIG. 129







DE	SIGNA	TED	DES	SIGNA"	ED	DES	IGNA'	ΓED	DES	IGNA'	ΓED	DE	SIC	INA	ΈD	
FIX	ED PO	SITION	POS	SITION		POS	ITION		POS	ITION		PC	SIT	ION		
PO:	SITION	DATA	POS	SITION	DATA	POS	ITION	DATA	POS	ITION	DATA	PC	SIT	ION	DATA	-13202
OF	POINT	S	OF	POINT	A	OF	POINT	В	OF I	POINT	C	OF	PC	INT	D	13202
	Sx	SY	П	Ax	Ay		Bx	Ву		Cx	CY		I	O _X	Dy]
t_1	1.0	1.0	tı	3.0	3.0	t_1	4.0	4.0	tı			tı				1
t_2	1.0	1.0	t ₂	3.0	3.0	t ₂	4.0	4.0	t ₂	5.0	3.0	t:	!	6.0	2.0	1
																_

FIG. 132C FIG. 132D FIG. 132E FIG. 132F FIG. 132G

L)AT/	OF DESIGNATED POSIT	ION COUNT	13203
		INCREASE IN NUMBER	TOTAL NUMBER]
	t ₁	2	3	
	t_2	2	5]

FIG. 132H

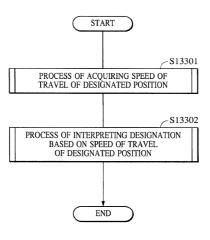


FIG. 133

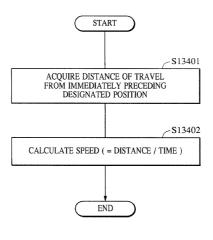
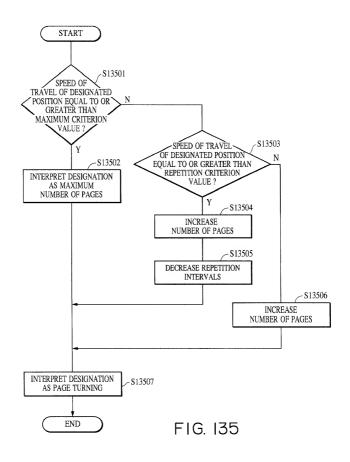
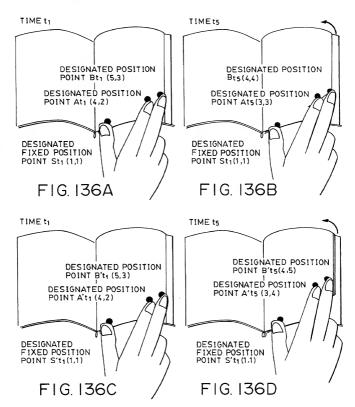


FIG. 134



PAGE TURNING



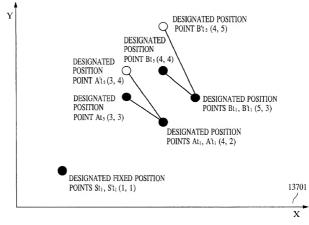


FIG. 137A

13702							
ED DATA B'	Β'γ	3.0	3.4	3.8	4.2	5.0	
DESIGNATED POSITION POSITION DATA OF POINT B'	B'x	5.0	4.8	4.6	4.4	4.0	
POSI POSI OF F		ţ	t_2	t3	ţ.	t2	
-		_					
TED DAT/	Ay	2.0	2.4	2.8	3.2	4.0	
DESIGNATED OSITION POSITION DATA OF POINT A'	A'x	4.0	3.8	3.6	3.4	3.0	
POS OF		t_	t 2	t3	t.	ts	
-			_	_	_	_	
TED DAT	B_{γ}	3.0	3.2	3.4	3.6	4.0	
DESIGNATED POSITION POSITION DATA DE POINT B	Вx	5.0	4.8	4.6	4.4	4.0	
E 5 5 6		ت	t2	t3	1	ts	
_							
BESIGNATED OSITION OSITION DATA OF POINT A	Α _Υ	2.0	2.2	2.4	5.6	3.0	
IGNA' ITION ITION POINT	Ax	4.0	3.8	3.6	3.4	3.0	
POS POS POS		-	t ₂	t3	t4	ts	
Z	_		_		-	_	
DESIGNATED TXED POSITION OSTITION DATA BE POINT S	Sy	1.0	1.0	1.0	1.0	1:0	
SIGNA ED PC SITION POINT	Sx	1.0	1.0	1.0	1.0	1.0	
SE S		42	t ₂	ţ	77	ts	

FIG.137B FIG.137C FIG.137D FIG.137E FIG.137F

DATA OF SPEED OF TRAVEL OF DESIGNATED POSITION

13703

			0	0	5
OF SPEED OF POINT I			00·I	1.00	1.25
SPEED OF POINT R'	0.000	0.447	0.447	0.447	0.559
RATE OF INCREASE OF SPEED OF POINT A'			1.00	1.00	1.25
SPEED OF POINT A'		0.447	0.447	0.447	0.559
OF SPEED OF POINT R	0.0		00'I	1.00	1.00
SPEED OF ROUNT R	0.000	0.283	0.283	0.283	0.283
OF SPEED OF POINT A			1.00	1.00	1.25
SPEED OF	0.00	0.283	0.283	0.283	0.354
SPEE	<u></u>	t ₂	t ₃	t4	ts

FIG. 137G

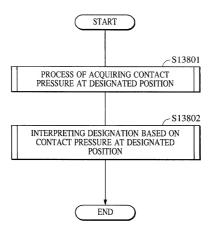
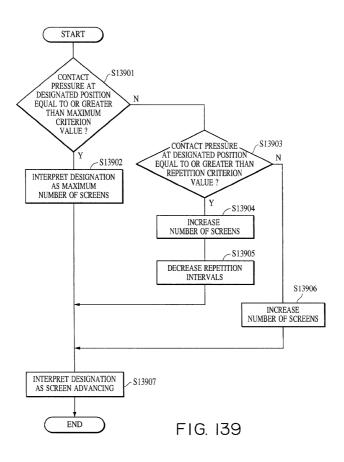
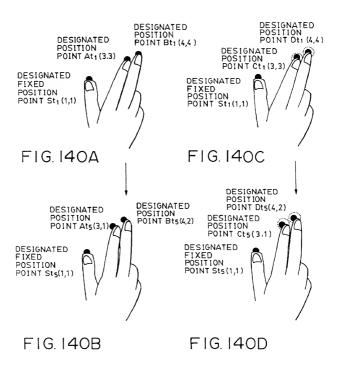


FIG. 138



14

SCREEN SHIFTING



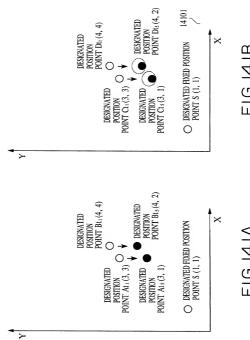


FIG. 141A

FIG. 141B

	7 14102						
ED	DATA D	Ď	4.0	3.6	3.2	2.8	2.0
IGNAT	OSTITION DATA OF POINT D	Dx	4.0	4.0	4.0	4.0	4.0
DES	POS OF.		Ţ	t ₂	t3	7	t _s
a a	DATA C	C,	3.0	2.6	2.2	1.8	1.0
IGNAT	POSITION DATA DF POINT C	Cx	3.0	3.0	3.0	3.0	3.0
S S	SO H		12	t2	t3	† 2	ts
DESIGNATED POSITION	POSITION DATA OF POINT B	Bx By	t ₁ 4.0 4.0	t ₂ 4.0 3.6	t ₃ 4.0 3.2	t ₄ 4.0 2.8	t ₅ 4.0 2.0
DESIGNATED POSITION	POSITION POSITION DATA OF POINT A	A _Y	3.0	5.6	2.2	1.8	1.0
		Ax	3.0	3.0	3.0	3.0	3.0
			<u>t</u>	t ₂	t3	7	ts
ESIGNATED XED POSITION	POSITION DATA OF POINT S	Sx Sy	1.0 1.0	2 1.0 1.0	3 1.0 1.0	4 1.0 1.0	s 1.0 1.0
OH	<u>⊼</u> 5	L	1	-	=	1+3	۳

FIG.141C FIG.141D FIG.141E FIG.141F FIG.141G

14103

	CONTACT PRESSURE AT POINT D	100	140	160	190	210
ITION	CONTACT PRESSURE AT POINT C	100	140	160	061	210
ESIGNATED POS	CONTACT PRESSURE AT POINT B	100	105	110	105	100
DATA OF CONTACT PRESSURE AT DESIGNATED POSITION	CONTACT PRESSURE AT POINT A	100	105	110	105	100
	CONTACT PRESSURE AT POINT S	100	105	110	105	100
DA		Ξ	t ₂	t3	Ţ	ţ

FIG. 141H

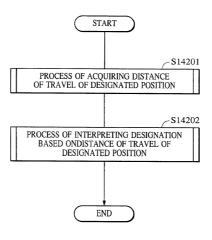
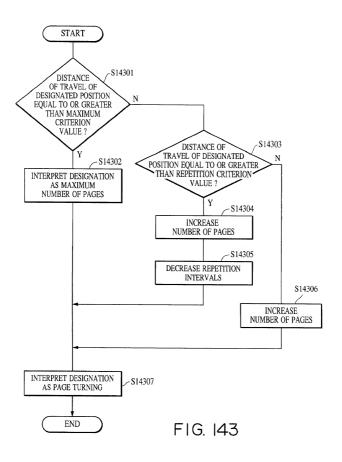
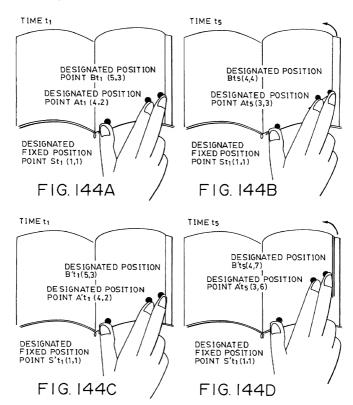


FIG. 142



PAGE TURNING



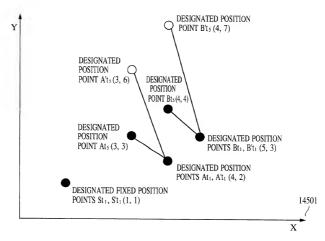


FIG. 145A

14502						
DESIGNATED POSITION POSITION DATA OF POINT B'	B'x B'y	t ₂ 4.8 3.8	t ₃ 4.6 4.6	t ₄ 4.4 5.4	t ₅ 4.0 7.0	F16. 145F
DESIGNATED POSITION POSITION DATA OF POINT A'	4 A A A A A A A A A A A A A A A A A A A	t ₂ 3.8 2.8	t ₃ 3.6 3.6	t ₄ 3.4 4.4	t ₅ 3.0 6.0	F16.145E
DESIGNATED POSITION POSITION DATA OF POINT B	bx By	t ₂ 4.8 3.2	t ₃ 4.6 3.4	t ₄ 4.4 3.6	t ₅ 4.0 4.0	F16.145D
DESIGNATED POSITION POSITION DATA OF POINT A	f. 40 20	t ₂ 3.8 2.2	t ₃ 3.6 2.4	t ₄ 3.4 2.6	t _s 3.0 3.0	FIG. 145C
DESIGNATED FIXED POSITION POSITION DATA OF POINT S	5x Sy	t ₂ 1.0 1.0	t ₃ 1.0 1.0	t ₄ 1.0 1.0	t ₅ 1.0 1.0	FIG. 145B

14503 DATA OF DISTANCE OF TRAVEL OF DESIGNATED POSITION

TRAVEL OF POINT A TRAVEL OF POINT B t ₁ 0 0.000 0.000 0.000 0.000 t ₂ 0 0.283 0.283 0.825 0.825 t ₃ 0 0.566 0.566 1.649 1.649 t ₄ 0 0.849 0.849 2.474 2.474 t ₂ 0 1.131 4.123 4.123							
TRAVEL OF TRAVEL OF TRAVEL OF OINT A POINT B P		TRAVEL OF POINT B'	0.000	0.825	1.649	2.474	4.123
TRAVEL OF TRAVEL OF POINT A POINT O 0.000 0.083 0.056		TRAVEL OF POINT A'	0000	0.825	1.649	2.474	4.123
TRAVEL OF POINTS POINTS 0 0 0 0 0 0		TRAVEL OF POINT B	0.000	0.283	0.566	0.849	1.131
		TRAVEL OF POINT A	0.000	0.283	0.566	0.849	1.414
t t t t t		TRAVEL OF POINT S	0	0	0	0	0
	-		ţ	t2	t3	ţ,	ts

FIG. 145G

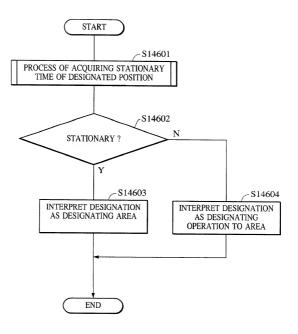


FIG. 146

DESIGNATING AREA

DESIGNATED POSITION POINT At₁

DESIGNATED POSITION POINT Bt1

TIME to

In a system for preparing a text by using a knowledge base, knowledge relating to input information is first retrieved from the knowledge base olurality of kinds of information used as elem t to be generated is selcted from the inpu on and the retrieved information relating ther iently, a describing order, in which the sele s of the text are described, is determined." be. output is generated on the basis of ements of the text and the determined desc FIG. 147A

> DESIGNATED POSITION POINT Ats

DESIGNATED POSITION POINT Bts

TIME ts

In a system for preparing a text by using a knowledge base, knowledge relating to input information is first retrieved from the knowledge b a plurality of xt to be generated is selcted from the inp ion and the retrieved information relating the quently, a describing order, in which the se ats of the text are described, is determined. o be output is generated on the basis of elements of the text and the determined des

FIG 147B

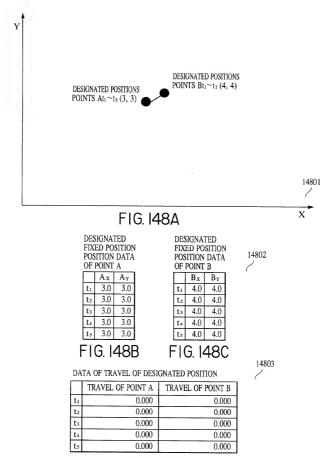


FIG. 148D

EXPANSION OPERATION DESIGNATED POSITION POINT Ats POINT Bts

TIME to

